

TDMS No. 93020 - 07
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
DIISOPROPYLCARBODIIMIDE
CAS Number: 693-13-0
Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.
Final #2/Rats

Date Report Reqstd: 08/08/2005
Time Report Reqstd: 08:54:04
First Dose M/F: 04/24/00 / 04/24/00
Lab: SRI

C Number: C93020D
Lock Date: 03/14/2003
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL

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DAY ON TEST	5	7	4	7	7	6	6	7	7	7	7	7	7	6	7	5	6	6	7	7	7	7	6	7	5	7
	3	0	6	3	1	5	9	3	2	3	3	3	2	9	2	9	0	8	0	3	3	3	8	3	3	3
	3	5	3	1	6	7	0	0	9	1	0	0	9	2	9	9	8	8	1	0	0	7	0	3	0	3
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

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1) Minimal 3) Moderate

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	3	0	6	3	1	5	9	3	2	3	3	2	9	2	9	0	8	0	3	3	8	3	3	3	3
	3	5	3	1	6	7	0	0	9	1	0	0	9	2	9	9	8	8	1	0	0	7	0	3	0
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males
(cont...)**

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	3	3	1	1	3	2	2	3	3	1	3	3	1	2	3	1	3	2	3	1	3	2	2	2	2
Thrombosis																									

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Fatty	3																								
Hyperplasia, Diffuse		2																							
Hyperplasia, Focal			3																						
Accessory Adrenal Cortical Nodule				2																					
Hypertrophy, Focal					3																				

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2																								

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia, Focal																									
Pars Distalis, Cyst																									

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HEMATOPOIETIC SYSTEM

Bone Marrow
Myelofibrosis
Hyperplasia

- Lymph Node
 - Mediastinal, Hyperplasia, Lymphoid
 - Mediastinal, Ectasia
 - Mediastinal, Pigmentation
- Pancreatic, Pigmentation
- Mediastinal, Hemorrhage
- Pancreatic, Hemorrhage

$$\begin{array}{ccccccc}
 + & & + & & + & + & + \\
 3 & & 3 & & 3 & 3 & 3 \\
 3 & & 3 & & 3 & 3 & 3 \\
 2 & & & & 3 & &
 \end{array}$$

Lymph Node, Mandibular

Lymph Node, Mesenteric
Hemorrhage
Hyperplasia, Lymphoid
Ectasia
Pigmentation

$$\begin{array}{ccccccccccccccccccccccccc}
+ & + \\
1 & & & & & & 2 & & & & & & & & & & & & & & 1 & & & & & & & & + \\
& 3 & & 2 & & 2 & & 2 & & 3 & & 2 & & & & & & & & 2 & & 2 & & 3 & & 2 & & \\
& & 2 & & 2 & & 2 & & & & & & & & & & & & & & 2 & & 2 & & 3 & & 2 & &
\end{array}$$

Spleen
Hematopoietic Cell Proliferation
Pigmentation
Fibrosis
Lymphoid Follicle, Atrophy
Necrosis

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	3	0	6	3	1	5	9	3	2	3	3	2	9	2	9	0	8	0	3	3	8	3	3	3	3
	3	5	3	1	6	7	0	0	9	1	0	0	9	2	9	9	8	8	1	0	0	7	0	3	0
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males
(cont...)**

Hemorrhage

.....

Peripheral Nerve +

Spinal Cord

+

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	2				2	2	2	1		2	1	1		1	1	1		3	1						
Hemorrhage						2																				
Alveolar Epithelium, Hyperplasia						1	1	2																		
Inflammation, Chronic						2	1																			
Edema																		2								

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body					X		X					X		X		X		X		X		X				
Respiratory Epithelium, Hyperplasia					2							2		2		1	1	2								
Inflammation, Chronic					1		1					1		2		4	1	3								
Respiratory Epithelium, Metaplasia, Squamous																							2			

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Degeneration																										

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	3	3	3	3	3	3	8	3	2	9	9	0	1	1	3	2	7	3	6	2	6	0	2	6	3	2
	1	0	7	0	0	1	2	7	9	7	3	6	2	6	0	2	6	3	2	7	0	2	6	3	2	
FISCHER 344 RATS MALE																										
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ulcer																				1 2.0
Edema																				1 3.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	49
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hepatocyte, Vacuolization Cytoplasmic																				6 3.2
Bile Duct, Hyperplasia	1		1	2		2	1	1	3		3	1		3	1	1	3	1	1	33 1.6
Angiectasis																				2 1.5
Clear Cell Focus	X		X	X	X		X					X		X					X	16
Mixed Cell Focus	X																			4
Basophilic Focus	X	X		X	X		X					X							X	14
Hepatodiaphragmatic Nodule																				5
Eosinophilic Focus	X											X		X						6
Centrilobular, Necrosis																		1		4 2.0

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DAY ON TEST	7	7	6	7	7	7	5	6	7	6	5	6	6	7	7	5	6	5	6	6	5	5	6	7	7		
	3	3	3	3	3	3	8	3	2	9	9	0	1	1	3	2	7	3	6	2	6	0	2	6	3	2	
	1	0	7	0	0	1	2	7	9	7	3	6	2	6	0	2	6	3	6	2	7	3	5	7	9	4	
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 MG/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
	* TOTALS																										
Degeneration, Cystic																											
Mesentery																											
Fat, Necrosis																											
Accessory Spleen																											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy	3		2						1		1	3														18	
Cyst		3								3																2.0	
Acinus, Hyperplasia, Focal				2					2																		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	49		
Atrophy																											1.20
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Epithelium, Hyperplasia									2			3		3												2.9	
Inflammation, Chronic																											2.25
Ulcer									3			4														3.0	
Erosion																											2.0
Edema																											3.0
Perforation																											1
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Chronic																											3.0
Glands, Hyperplasia																											2.20
Erosion				2						3		3		3												7.26	
Ulcer										3			4													4.28	
Tongue																											1

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CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy 3 2 2 2 3 + + + 1 2 3 + 2 1 3 3 + 1 2 2 3 1 + 1 1 3 41 2.1
Thrombosis 2 3 5 3.0

ENDOCRINE SYSTEM

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	3	3	3	3	3	3	8	3	2	9	9	0	1	1	3	2	7	3	6	7	9	3	7	2	1
	1	0	7	0	0	1	2	7	9	7	3	6	2	6	0	2	6	3	2	7	3	5	7	9	4
																								
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0 MG/KG	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																									* TOTALS

HEMATOPOIETIC SYSTEM

Bone Marrow
Myelofibrosis
Hyperplasia

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																									2 2.0
																									3 2.7

Lymph Node
Mediastinal, Hyperplasia, Lymphoid
Mediastinal, Ectasia
Mediastinal, Pigmentation
Pancreatic, Pigmentation
Mediastinal, Hemorrhage
Pancreatic, Hemorrhage

+																									18
	2																								7 2.9
		3																							3 3.0
			2																						2 2.0
				3																					1 3.0
					4																				2 3.5
						4																			2 4.0

Lymph Node, Mandibular

M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----------

Lymph Node, Mesenteric
Hemorrhage
Hyperplasia, Lymphoid
Ectasia
Pigmentation

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																									10 1.8
																									18 2.2
																									3 2.3
																									15 2.0

Spleen
Hematopoietic Cell Proliferation
Pigmentation
Fibrosis
Lymphoid Follicle, Atrophy
Necrosis

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																									10 1.8
																									9 2.9
																									2 2.5
																									1 3.0
																									2 3.5

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Lab: SRI

DAY ON TEST	7	7	6	7	7	7	5	6	7	6	5	6	6	7	7	5	6	5	6	6	5	5	6	7	7	
	3	3	3	3	3	3	8	3	2	9	9	0	1	1	3	2	7	3	6	2	6	0	2	6	3	2
	1	0	7	0	0	1	2	7	9	7	3	6	2	6	0	2	6	3	2	7	7	3	5	7	9	4
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS
Thymus Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
																									1 2.0	

INTEGUMENTARY SYSTEM

Mammary Gland Hyperplasia	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
	4	2		3		2		4	4	3		4	3		2		4	3		4	3		4	3	31 3.1	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Epidermis, Hyperplasia			4			4			4			4			4			4								9 3.6
Inflammation, Chronic			4						4																	5 3.6
Ulcer									4																	4 3.5
Epidermis, Skin, Site Of Application, Hyperplasia																										1 1.0

MUSCULOSKELETAL SYSTEM

Bone Femur, Osteopetrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1 2.0
Skeletal Muscle																									3

NERVOUS SYSTEM

Brain Compression Hydrocephalus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									16 3.2

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

DAY ON TEST	7	7	6	7	7	7	5	6	7	6	5	6	6	7	7	5	6	5	6	6	5	5	6	7	7	
	3	3	3	3	3	3	8	3	2	9	9	0	1	1	3	2	7	3	6	2	6	0	2	6	3	2
	1	0	7	0	0	1	2	7	9	7	3	6	2	6	0	2	6	3	2	7	7	3	5	7	9	4
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS
Hemorrhage																										1 1.0
Peripheral Nerve																										3
Spinal Cord																										3

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Histiocyte	1							2		2		2		2		1		1		2						21 1.5
Hemorrhage								2		1	2		2													6 1.7
Alveolar Epithelium, Hyperplasia	1		1																							10 1.3
Inflammation, Chronic	1			1	1			1																	9 1.2	
Edema																										2 2.5
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body							X			X	X			X	X											13
Respiratory Epithelium, Hyperplasia	2		2					2			2			2	2											11 1.8
Inflammation, Chronic	4		2				4		2	2			2	3			1								15 2.2	
Respiratory Epithelium, Metaplasia, Squamous	2																									2 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Retina, Degeneration																										4 1.8

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Lab: SRI

	6	6	5	7	7	7	7	7	6	7	5	7	5	7	5	7	7	7	7	6	7	7	7	7		
DAY ON TEST	0	0	4	3	3	3	3	3	2	2	7	2	9	2	9	3	7	2	0	3	3	2	3	3	1	2
	1	0	6	0	0	0	0	0	9	9	6	9	3	9	3	0	1	9	3	0	0	1	0	1	6	9
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

ALIMENTARY SYSTEM

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	6	6	5	7	7	7	7	7	6	7	5	7	5	7	5	7	7	7	7	6	7	7	7	7		
DAY ON TEST	0	0	4	3	3	3	3	3	2	2	7	2	9	2	9	3	7	2	0	3	3	2	3	3	1	2
	1	0	6	0	0	0	0	0	9	9	6	9	3	9	3	0	1	9	3	0	0	1	0	1	6	9
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Edema
Inflammation, Chronic

Tongue

CARDIOVASCULAR SYSTEM

Heart
Cardiomyopathy
Inflammation, Chronic
Thrombosis

ENDOCRINE SYSTEM

- Adrenal Cortex
 - Accessory Adrenal Cortical Nodule
 - Degeneration, Fatty
 - Hypertrophy, Focal
 - Hyperplasia, Focal

Adrenal Medulla Hyperplasia

Islets, Pancreatic

Parathyroid Gland Hyperplasia

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0	0	0	4	3	3	3	3	2	2	7	2	9	2	9	3	7	2	0	3	3	2	3	3	1
1	0	6	0	0	0	0	9	9	6	9	3	9	3	0	1	9	3	0	0	1	0	1	6	9

FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males
(cont...)**

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst																								3
Pars Distalis, Hyperplasia, Focal																								2
Pars Distalis, Angiectasis																								1
Pars Intermedia, Cyst																								

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia																								3
Follicle, Cyst																								2

GENERAL BODY SYSTEM

Tissue Nos

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																								2
Cyst																								3
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia																								2
Inflammation, Chronic																								2
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	6	6	5	7	7	7	7	7	6	7	5	7	5	7	5	7	7	7	7	6	7	7	7	7	7
	0	0	4	3	3	3	3	2	2	7	2	9	2	9	3	7	2	0	3	3	2	3	3	1	2
	1	0	6	0	0	0	0	9	9	6	9	3	9	3	0	1	9	3	0	0	1	0	1	6	9
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males
(cont...)**

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Germinal Epithelium, Atrophy									1	1								2								
Interstitial Cell, Hyperplasia																		2								

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			4	3						
Myelofibrosis																			2	4						
Lymph Node																										
Mediastinal, Hyperplasia, Lymphoid																			3							
Mediastinal, Pigmentation																			3							
Pancreatic, Hyperplasia, Lymphoid																			2							
Pancreatic, Pigmentation																			2							
Mediastinal, Ectasia																			3							
Mediastinal, Hemorrhage																										
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid																			2							
Ectasia																			2							
Pigmentation																			4	3						
Hemorrhage																			2							
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation																			2							
Lymphoid Follicle, Hyperplasia																										
	3		2																							

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	0	0	4	3	3	3	3	2	2	7	2	9	2	9	3	7	2	0	3	3	2	3	3	1	2
	1	0	6	0	0	0	0	9	9	6	9	3	9	3	0	1	9	3	0	0	1	0	1	6	9
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males
(cont...)**Pigmentation
Fibrosis
Hemorrhage
Necrosis

3

2

4

Thymus

+ + + + + + + + + + + + + + M + + + + + + + + M

INTEGUMENTARY SYSTEMMammary Gland
Hyperplasia

+ + + + + M + + + + + + + + + + + + + + M + + + + + + + +

Skin

+ +

Epidermis, Hyperplasia

4 3

Ulcer

4

Epidermis, Skin, Site Of Application,
Hyperplasia

1 1

1 1

Skin, Site Of Application, Inflammation,
Chronic

1

Cyst Epithelial Inclusion

X 4 X X

Inflammation, Chronic

MUSCULOSKELETAL SYSTEM

Bone

+ +

Skeletal Muscle

.....

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Lab: SRI

| DAY ON TEST | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 7 | 2 | 9 | 2 | 9 | 3 | 7 | 2 | 0 | 3 | 3 | 2 | 3 | 3 | 1 | 2 |
| | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 9 | 9 | 6 | 9 | 3 | 9 | 3 | 0 | 1 | 9 | 3 | 0 | 0 | 1 | 0 | 1 | 6 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)****NERVOUS SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | | |

Peripheral Nerve

Spinal Cord

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 1 | | | 2 | 2 | | 1 | | | 2 | 1 | | | 2 | | 2 | | | | 2 | 2 | | 1 | | | |
| Foreign Body | | X | X | X | X | | X | | | X | X | | | X | | X | | | | X | X | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | 1 | 1 | | | | | | | 1 | 2 | | | | | 2 | 3 | 1 | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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1) Minimal 3) Moderate

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 5 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 7 | 2 | 9 | 2 | 9 | 3 | 7 | 2 | 0 | 3 | 3 | 2 | 3 | 3 | 1 | 2 |
| | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 9 | 9 | 6 | 9 | 3 | 9 | 3 | 0 | 1 | 9 | 3 | 0 | 0 | 1 | 0 | 1 | 6 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

SPECIAL SENSES SYSTEM

Eye

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cornea, Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

1

Harderian Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

3

URINARY SYSTEM

Kidney

Renal Tubule, Pigmentation

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |

3

Nephropathy

Inflammation, Chronic

Renal Tubule, Dilatation

Renal Tubule, Accumulation, Hyaline Droplet

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 2 | 2 | 1 | 2 | 2 | 4 | 2 | 4 | 2 | 1 | 3 | 2 | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

3

2

3

3

Urinary Bladder

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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DIISOPROPYLCARBODIIMIDE

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Lab: SRI

| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema+ 50 **2 2.5**Intestine Large, Colon
Inflammation, Chronic Active+ 50 **1 3.0**

Intestine Large, Rectum

+ 48

Intestine Small, Duodenum
Epithelium, Hyperplasia+ A + + + + 49 **1 3.0**

Intestine Small, Ileum

+ A + + + + 49

Intestine Small, Jejunum

+ 49

Liver

+ 50

Centrilobular, Necrosis

3 2.0

Bile Duct, Hyperplasia

36 2.1

Hepatocyte, Vacuolization Cytoplasmic

6 3.3

Hepatodiaphragmatic Nodule

5

Degeneration, Cystic

5 2.0

Angiectasis

2 3.0

Mixed Cell Focus

6

Clear Cell Focus

11

X

X

X

X

X

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 | 8 |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Basophilic Focus | X | | | | | | | X | | | | | | | | | | | | | | | | 14 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2.5 |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1.20 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | 2.20 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | 1.20 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 6 3.2 |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 28 2.2 |
| Atrophy | 1 | | | | | 3 | | 1 | | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 3 | | | 5 2.2 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Ulcer | 3 | | 4 | | | | | | | 4 | | | | | | | | | | | | | | 6 3.2 |
| Epithelium, Hyperplasia | 2 | | | | | 3 | | | 4 | | | | | | | | | | | | | | | 6 3.3 |
| Edema | 3 | | 2 | | | | | | | 4 | | | | | | | | | | | | | | 3 3.0 |
| Erosion | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Diverticulum | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| X | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Erosion | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | 6 2.3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |

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+ .. Tissue examined microscopically

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 | 8 |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*** TOTALS**

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|-------|
| Edema | 3 | | | | | | | | | | | | | | | | | | | | | | 3 | 2 3.0 |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Tongue | + | | | | | | | | | | | | | | | | | | | | | | 1 | |
|--------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 3 | 1 | 3 | 3 | 1 | | 3 | 1 | 4 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 44 2.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | 4 4.0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Accessory Adrenal Cortical Nodule | 3 | 3 | 3 | 3 | 3 | 1 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 16 3.0 |
| Degeneration, Fatty | 2 | | 3 | | | 1 | | 1 | | | | | | | | | | | | | | | 2 | 11 1.8 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Hyperplasia, Focal | 1 | | | | | | | | 2 | | | 2 | | | | | | | | | | | 8 1.5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 48 | |
| Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | 2 | | 9 1.6 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | 1 2.0 |

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+ .. Tissue examined microscopically

x .. Lesion present

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|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Pars Distalis, Hyperplasia, Focal | | 3 | | | | | | | | | | | | | | | | | | | | | | 7 2.0 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | | 3 | | | | | | | | | | | | | | | | | | | | | | 12 2.0 |
| Follicle, Cyst | | | 3 | | | | | | | | | | | | | | | | | | | | | 5 3.0 |

GENERAL BODY SYSTEM

Tissue Nos

1

GENITAL SYSTEM

Epididymis

+ 50

Preputial Gland

Inflammation, Chronic
Cyst+ 50
2 3 2 + + + + + 26 2.0
3

Prostate

Epithelium, Hyperplasia
Inflammation, Chronic+ 50
3 2 2 1 3 2 3 2 2 3 2 2 1 3 1 2 3 1 2 3 2 2 1 1 3 32 2.3

Seminal Vesicle

+ 50

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|---------|
| | DAY ON TEST | 5
4
2 | 7
3
1 | 6
5
1 | 6
3
2 | 7
2
5 | 5
2
9 | 7
2
9 | 7
0
3 | 6
2
0 | 7
2
9 | 7
2
9 | 7
2
9 | 7
2
9 | 7
2
9 | 7
2
9 | 4
4
4 | 7
2
9 | 7
3
0 | 7
3
1 | 6
7
3 | 6
8
2 | 4
8
5 | | |
| FISCHER 344 RATS MALE | ANIMAL ID | 0
0
0 | | |
| 10 MG/KG | | 7
6 | 7
7 | 7
8 | 7
8 | 8
8 | 9
9 | * TOTALS | |
| Testes | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.1 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 6 1.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.9 | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | 14 | | |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | 3 | | 3 | | 3 | | 1 | | 3 | | | | | | | | | | | | | | 5 2.6 | |
| Mediastinal, Pigmentation | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Lymphoid | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | 15 2.2 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Pigmentation | 2 | | 3 | | | | | | | | | | | | | | | | | | | | | | | 8 2.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hematopoietic Cell Proliferation | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | 9 2.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Date Report Reqsted: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 | | |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 9 | 4 | 9 | 0 | 1 | 3 | 2 | 5 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 3 | | 2 | 3 | | | | | | | | | | | | | | | | | 3 | | | 5 | 2.8 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | 3 | 4 | | 3 | 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|-----|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 25 2.8 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Epidermis, Hyperplasia | 3 | | 4 | | | | | | | | | | | | | | | | | | | | | | 7 3.6 | |
| Ulcer | 4 | | 3 | | | | | | | | | | | | | | | | | | | | | | 5 3.4 | |
| Epidermis, Skin, Site Of Application, Hyperplasia | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | 1 | 10 1.0 | |
| Skin, Site Of Application, Inflammation, Chronic | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | 6 | 1.0 | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | + | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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TDMS No. 93020 - 07

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Lab: SRI

| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 4 | 3 | 1 | 5 | 3 | 2 | 7 | 2 | 2 | 0 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 3 | 7 | 8 | 8 |
| | 2 | 1 | 7 | 4 | 1 | 2 | 5 | 9 | 9 | 3 | 0 | 9 | 9 | 9 | 9 | 9 | 0 | 4 | 9 | 0 | 1 | 3 | 2 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|----------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Compression | 2 | | | | | | | | | | | | | | | | | | | | | | | 10 3.0 | |
| Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Peripheral Nerve | M | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Spinal Cord | + | | | | | | | | | | | | | | | | | | | | | | | | 1 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 6 2.0 | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 4 | 3 | 1 | | | | | | | | | | | | | | | | | | | | 19 1.5 |
| Inflammation, Chronic | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | 13 1.2 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 1 | | 1 | | 1 | 1 | | 3 | 1 | | 3 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 22 1.5 |
| Foreign Body | X | | X | | X | X | | X | | X | X | | X | X | X | X | X | X | X | X | X | X | X | 22 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

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| DAY ON TEST | 5 | 7 | 6 | 6 | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 6 | 6 | 4 |
|-----------------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

SPECIAL SENSES SYSTEM

Eye

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Cornea, Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Harderian Gland

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Inflammation, Chronic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Renal Tubule, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |
| Nephropathy | 3 | 3 | 2 | 1 | 4 | 1 | 1 | 2 | 1 | | 4 | 1 | 3 | 3 | 2 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |
| Renal Tubule, Dilatation | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema
Hemorrhage

+ +

3

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ +

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ + + + + + + + A + + + + + + + + + + + + + + + + + + +

3

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

+ +

Liver

+ +

Bile Duct, Hyperplasia

1 2 3 1 2 2 2 2 1 1 1 3 1 1 1 2 1

Basophilic Focus

X X X X X X X X X X X X X X X X

Clear Cell Focus

X X X X X X X X X X X X X X X X

Hepatocyte, Vacuolization Cytoplasmic

3 2 4 4

Hemorrhage

2 2

Infiltration Cellular, Mixed Cell

3 2 X X

Mixed Cell Focus

X X 3

Centrilobular, Necrosis

1

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 | |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | | | | | | | | | | | | | X | X | X | | | | X | |
| Angiectasis | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | X | X | X | | | | 2 | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | + | | | | + | | | + | | | + | | + | | + | | | + | | |
| Fat, Necrosis | 2 | | | | | | 3 | | | | 3 | | | 3 | | | 4 | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | + | + | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | |
| Cyst | 3 | | | | | | | | | | | | | | | | 3 | | | | | | | | 3 | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Atrophy | | | | | | | | | | | | | | | | | 3 | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Edema | 4 | | | | | | | | | | | | | | | | 4 | | | | | | | | 3 | |
| Epithelium, Hyperplasia | 3 | | 3 | | | | | | | | | | | | | | 2 | 2 | | | | | | | 2 | |
| Ulcer | 4 | | 4 | | | | | | | | | | | | | | 4 | | | | | | | | 2 | |
| Perforation | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Erosion | | | | | | | | | | | | | | | | | | 2 | | | | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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l .. Insufficient tissue

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 3 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Accessory Adrenal Cortical Nodule | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 |
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS MALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 MG/KG | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Hyperplasia, Focal | 2 | 2 | 2 | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Pars Distalis, Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | | | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

GENERAL BODY SYSTEM

Tissue Nos

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 2 | 2 | 2 | | | | 2 | | | | | | | | | | | | | 2 | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 3 | 2 | | | 3 | 2 | | | 2 | | | | | | | | | | | | | | | | | |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Germinal Epithelium, Atrophy | 1 | | | | 1 | 3 | | | 3 | | | 2 | | | 2 | 1 | 3 | 3 | | | | | | | | |
| Interstitial Cell, Hyperplasia | | 1 | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | 4 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | | + | |
| Pancreatic, Ectasia | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | + | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 | |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | 2 | | 2 | | | | | | | | | | | | | | | | | 2 | | 1 | 1 | 1 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epidermis, Skin, Site Of Application, | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | | | | |
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chronic | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | 1 | 1 | 1 | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 4 | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)**MUSCULOSKELETAL SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | + | | | | | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | + | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 1 | 1 | 3 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | X | | X | | | | | | | | | | | | | | X | | X | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Retina, Degeneration | | 1 | | | | | | | | | | | | | | | | | 3 | | 2 | | | | | |
| Cornea, Hyperplasia | | | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Chronic | | | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 2 | 1 | 1 | 3 | 3 | 3 | 3 | | 2 | 3 | 2 | + | 3 | 3 | + | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 3 | | | |
| Renal Tubule, Necrosis | | | 3 | | | | | | | | | | | | | | | | | | | 4 | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 3 | | 2 | 2 | | | 2 | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

Urethra

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 6 | 7 | 7 | |
| | 3 | 3 | 0 | 4 | 2 | 1 | 3 | 3 | 6 | 3 | 3 | 2 | 5 | 2 | 9 | 9 | 3 | 3 | 8 | 3 | 2 | 9 | 4 | 3 | 2 |
| | 1 | 1 | 3 | 4 | 9 | 5 | 0 | 1 | 3 | 0 | 0 | 9 | 2 | 9 | 1 | 4 | 0 | 0 | 6 | 0 | 9 | 6 | 5 | 0 | 9 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

males
(cont...)

Angiectasis

.....

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

2
2

Urinary Bladder

Hemorrhage

Inflammation, Chronic

Transitional Epithelium, Hyperplasia

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| FISCHER 344 RATS MALE
20 MG/KG | ANIMAL ID | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 | |
| | | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 9 | 0 | 1 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ..... |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ..... |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ..... |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| ..... |  | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| ..... |  | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| ..... |  | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum

+ 50

Edema

3 3 2 4 2.8

Hemorrhage

2 1 2.0

Intestine Large, Colon

+ 50

Intestine Large, Rectum

+ 48

Intestine Small, Duodenum

+ 49

Epithelium, Hyperplasia

3 2 3 2 3.0

Intestine Small, Ileum

+ 50

Intestine Small, Jejunum

+ + + + A + 48

Liver

+ 50

Bile Duct, Hyperplasia

1 3 1 1 1 3 3 2 2 1 1 2 2 3 31 1.7

Basophilic Focus

X 22

Clear Cell Focus

X 14

Hepatocyte, Vacuolization Cytoplasmic

3 4 3 7 3.3

Hemorrhage

3 3 2 2.5

Infiltration Cellular, Mixed Cell

1 4 3 4 2.0

Mixed Cell Focus

X X 6 6

Centrilobular, Necrosis

X X 2 2.0

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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| FISCHER 344 RATS MALE
20 MG/KG | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| | | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | | |
| | | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | 8 | |
| | | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| Eosinophilic Focus | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Angiectasis | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hepatodiaphragmatic Nodule | X | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Degeneration, Cystic | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| Regeneration | | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 2 | 1 | 2 | 1 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 2 | 4 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 32 1.9 | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.0 | |
| Acinus, Hyperplasia, Focal | | | | | | | | | 2 | | | | | | | | | | | | | | | | 4 2.0 | |
| Hemorrhage | | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 3.0 | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.4 |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 8 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 6 3.5 |
| Perforation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 | |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular Erosion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 2 | 3 | 3 | 4 | 44 2.4 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 3 5.4 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Accessory Adrenal Cortical Nodule | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 16 3.0 | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 7 2.0 |
| Degeneration, Fatty | | 2 | 3 | | 1 | | 2 | 2 | | 2 | | 2 | | 1 | | 3 | | 3 | | 2 | | 3 | | 15 2.2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | | 3 | | 1 | | | | | | | | | | | | | | | | | | | | 16 1.8 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 3 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 7 2.3 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |

GENERAL BODY SYSTEM

Tissue Nos

1

GENITAL SYSTEM

Epididymis

+ 50

Penis

+ 1

Preputial Gland

Inflammation, Chronic
Cyst+ 50
2 2 2 3 2 17 2.1

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: SRI

| ANIMAL ID
20 MG/KG | DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| | | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 | |
| | | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 3 | 2 | 4 | 3 | 3 | 3 | 3 | 35 2.4 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Germinal Epithelium, Atrophy | 3 | 1 | 3 | 2 | 1 | 1 | 3 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 24 2.3 | |
| Interstitial Cell, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 8 1.3 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymph Node | + | | + | | | + | | | | | | | | | | | | | | | | | | | | 16 |
| Pancreatic, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 5 3.2 |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.6 |
| Pancreatic, Hemorrhage | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 2.0 |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | 3 | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Mediastinal, Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|---------------|
| | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 | |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 20 2.1 | |
| Pigmentation | 2 | 2 | 2 | 2 | | | | 2 | 2 | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 16 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 11 1.5 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Fibrosis | | | | | | | | 3 | | | | | | | | | | | | | | | | 2 3.0 | |
| Pigmentation | | | | | | | | 3 | | | | | | | | | | | | | | | | 6 2.3 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 11 2.1 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 1 4.0 | |
| Thymus | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Mammary Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Hyperplasia | 4 | 4 | 2 | 3 | | | 2 | 2 | 4 | 3 | 3 | 2 | 4 | 3 | 2 | 3 | 2 | 3 | 3 | 4 | 2 | 2 | | 29 3.0 | |
| * | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Skin, Site Of Application, Hyperplasia | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 29 1.1 |
| Skin, Site Of Application, Inflammation, Chronic | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | 12 1.0 | |
| Epidermis, Hyperplasia | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | 8 3.5 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 | |
| Ulcer | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | 5 4.0 | |
| Cyst Epithelial Inclusion | | | | | | | X | | | | | | | | | | | | | | | | | 2 | |
| Skin, Site Of Application, Erosion | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 3.1.7 | |
| Compression | 3 | 3 | | | 3 | 3 | | 4 | | | 2 | | 4 | | | | | | | | | | | | 15 3.1 |
| Hydrocephalus | 2 | 2 | | | | | | | | | 2 | | 2 | | | | | | | | | | | | 5 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | 2 | | 3 | | 1 | | 2 | | | | | | | | | | | | | | | | | | 7 2.1 |
| Infiltration Cellular, Histiocyte | 1 | | 1 | | 3 | 2 | | | 1 | 1 | | | | | | | | | | | | | | 1 | 21 1.3 |
| Alveolar Epithelium, Hyperplasia | | | | | | 2 | | | 1 | | | | | | | | | | | | | | | | 6 2.0 |
| Inflammation, Chronic | 1 | | | | | 2 | 1 | | 1 | 1 | | | | | | | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 16 1.4 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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Lab: SRI

| DAY ON TEST | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 9 | 0 | 1 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS MALE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 20 MG/KG | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | 2 | 1 | | | 2 | 2 | | | | | | | | 2 | 3 | | | 13 1.8 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | 1 | | 2 | 3 | | | | | | | | | 2 | 2 | | | 8 1.9 |
| Foreign Body | | | | | X | | | X | X | | | | | | | | | | X | | X | | X | 12 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Retina, Degeneration | | | | | | | | 2 | | | | | | | | | | | | | | | | 6 2.0 |
| Cornea, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 2.0 |
| Cornea, Inflammation, Chronic | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | 5 1.8 |
| Cataract | | | | | | | | | | | | | | | | | 1 | | | | | | | 2 2.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 1 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | | 4 | 1 | 1 | 2 | 1 | 3 | 4 | 3 | 3 | 2 | 4 | 2 | 3 | 1 | 42 2.3 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 9 2.3 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | 1 2.0 |
| Urethra | | | | | | | | | | | | | | | | | | | | | | | | + 1 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| | 7 | 5 | 7 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | 2 | 5 | 3 | 6 | 4 | 3 | 6 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 7 | 3 | 3 | 3 | 8 | |
| | 9 | 6 | 0 | 3 | 7 | 0 | 0 | 9 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 9 | 9 | 0 | 6 | 1 | 0 | 0 | 1 | 8 | |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 |
| Urinary Bladder Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)****ALIMENTARY SYSTEM**

Esophagus

+ +

Intestine Large, Cecum
Edema

+ M +

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ +

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ +

Intestine Small, Ileum

+ + + + + M +

Intestine Small, Jejunum

+ +

Liver

+ +

Basophilic Focus

X X

Clear Cell Focus

X X

Hepatodiaphragmatic Nodule

X X

Bile Duct, Hyperplasia

1 1

Angiectasis

3 3

Eosinophilic Focus

X X

Mixed Cell Focus

X X

Metaplasia, Atypical

3 3

Cyst

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

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Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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DIISOPROPYLCARBODIIMIDE

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Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)**Hepatocyte, Vacuolization Cytoplasmic
Hemorrhage 3Mesentery +
Fat, Necrosis 3Pancreas +
Atrophy 3
Cyst 2
Acinus, Cytoplasmic Alteration 3 3Salivary Glands +
Atrophy 1
Necrosis 3 2Stomach, Forestomach +
Epithelium, Hyperplasia 2
Inflammation, Chronic 2
Ulcer
Edema 4Stomach, Glandular +
Erosion 1
Glands, Hyperplasia 2
Ulcer 3

Tongue +

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------------|
| | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
| DAY ON TEST | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |

Blood Vessel

Heart
Cardiomyopathy

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

ENDOCRINE SYSTEM

Adrenal Cortex

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |

Accessory Adrenal Cortical Nodule

Degeneration, Fatty
Hypertrophy, Focal
Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |

Adrenal Medulla

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Islets, Pancreatic

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Parathyroid Gland

Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Pituitary Gland

Pars Distalis, Hyperplasia, Focal

Pars Intermedia, Cyst

Pars Distalis, Angiectasis

Pars Distalis, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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TDMS No. 93020 - 07

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Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

Epididymis
Granuloma SpermPreputial Gland
Inflammation, Chronic
Hyperplasia
CystProstate
Inflammation, Chronic
Epithelium, Hyperplasia

Seminal Vesicle

Testes
Germinal Epithelium, Atrophy

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE
ANIMAL ID
40 MG/KG | DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
| | | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 8 | 1 | 3 |
| | | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 |

males
(cont...)

Interstitial Cell, Hyperplasia

1 2 1 1 2

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia, Lymphoid | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pigmentation | 2 | | 2 | 3 | 3 | 3 | 2 | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Registered: 08/08/2005

Time Report Requested: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

Necrosis
Lymphoid Follicle, Hyperplasia

INTEGUMENTARY SYSTEM

+

Hyperplasia
Skin, Site Of Application, Inflammation,
Giant Cell

Chronic
Epidermis, Hyperplasia
Ulcer 3
3

Ulcer
Inflammation, Chronic

MUSCULOSKELETAL SYSTEM

Skeletal Muscle + + +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue
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Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

males
(cont...)**NERVOUS SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Neuron, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Arteriole, Necrosis, Fibrinoid | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | + |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | | |
| males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | |

Respiratory Epithelium, Metaplasia,
Squamous

1

Trachea

+ +

SPECIAL SENSES SYSTEM

Ear

.....

Eye

Cornea, Inflammation, Chronic

+ +

Cornea, Hyperplasia

2 3 1

Retina, Degeneration

3 1

Cornea, Ulcer

2

Cataract

Harderian Gland

Hyperplasia, Focal

+ +

Lacrimal Gland

.....

Zymbal's Gland

+ +

+

URINARY SYSTEM

Kidney

.....

Nephropathy

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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| DAY ON TEST | 3 | 7 | 7 | 5 | 2 | 2 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 2 | 7 | 6 | 7 | 7 | 6 | 6 | 2 | 2 | 3 | 7 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 3 | 5 | 0 | 7 | 0 | 6 | 3 | 3 | 2 | 0 | 2 | 3 | 3 | 3 | 0 | 2 | 2 | 2 | 6 | 6 | 8 | 1 | 3 |
| | 5 | 1 | 1 | 3 | 4 | 8 | 6 | 7 | 0 | 9 | 7 | 9 | 1 | 7 | 0 | 6 | 9 | 9 | 3 | 9 | 6 | 1 | 9 | 0 | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

**males
(cont...)**

Renal Tubule, Dilatation
Cyst
Inflammation, Chronic

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | \| | + | + | + | + | + | + | + | + | + |  |
| Hemorrhage | | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | 3 | | | | | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: SRI

ALIMENTARY SYSTEM

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

IV. Inflammation tissue

M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
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2) Mild 4) Marked

TDMS No. 93020 - 07

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |

FISCHER 344 RATS MALE

ANIMAL ID

40 MG/KG*** TOTALS**

| | | |
|---------------------------------------|---|-----|
| Hepatocyte, Vacuolization Cytoplasmic | 1 | 3.0 |
| Hemorrhage | 1 | 2.0 |

| | | |
|---------------|---|--|
| Mesentery | + | |
| Fat, Necrosis | 3 | |

2

6

3 2.7

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 2 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | 21 2.3 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Epithelium, Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | 5 2.2 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |
| Edema | 3 | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

CARDIOVASCULAR SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Blood Vessel

+

1

Heart
Cardiomyopathy

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 2 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 36 1.7 |

ENDOCRINE SYSTEM

Adrenal Cortex

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Accessory Adrenal Cortical Nodule

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Degeneration, Fatty

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 8 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Hypertrophy, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 1.7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 5 1.6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Adrenal Medulla

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 1.7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Islets, Pancreatic

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Parathyroid Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 2.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Pituitary Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Pars Distalis, Hyperplasia, Focal

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 2.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Pars Intermedia, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Pars Distalis, Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 2.5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

Pars Distalis, Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 3.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| FISCHER 344 RATS MALE
40 MG/KG | ANIMAL ID | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | |
| | | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | |
| | | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |

Thyroid Gland
Ultimobranchial Cyst
Follicle, Cyst
C-cell, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.3 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Coagulating Gland

+

1

Epididymis
Granuloma Sperm

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

Preputial Gland
Inflammation, Chronic
Hyperplasia
Cyst

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 9 2.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

Prostate
Inflammation, Chronic
Epithelium, Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 3 | 3 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 2 | + | + | + | + | + | + | 2 | 2 | + | + | + | + | 2 | + | + | 25 2.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 |

Seminal Vesicle

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

Testes
Germinal Epithelium, Atrophy

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 14 2.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Date Report Reqstd: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Interstitial Cell, Hyperplasia | 2 | | | | | | | | | | | | | | 2 | | 1 | | | | | | | 8 1.5 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Mediastinal, Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | | 6 2.8 |
| Mediastinal, Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | 7 2.4 |
| Mediastinal, Pigmentation | 2 | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.5 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | 2 | | 2 | 2 | 3 | | | | | | | | | | | | | | | | | | | | 15 2.1 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | 12 2.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | 3 | | 3 | | 1 | 2 | | 4 | 2 | 3 | | 2 | | 3 | | 3 | | 3 | | 3 | | 2 | 3 | 3 | 25 2.6 |
| Lymphoid Follicle, Atrophy | | | 2 | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Hematopoietic Cell Proliferation | 1 | | | | | | | 2 | | | | | | | | | | 2 | | | | | | 4 1.8 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 | 2 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 | 8 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 | 5 |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.4 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|---------------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | + | + | 48 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | 4 | 2 | 2 | 4 | | | 10 2.7 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Skin, Site Of Application, | | | | | | | | | | | | | | | | | | | | | | | | | 19 1.1 |
| Hyperplasia | 1 | 1 | 2 | 1 | | 2 | 1 | | | | | | | | | | | | 1 | 1 | 1 | | | | |
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.0 |
| Chronic | 1 | 1 | 1 | | 1 | 1 | | | | | | | | | | | | | 1 | 1 | 1 | | | | |
| Epidermis, Hyperplasia | 4 | 4 | | | | | | | | | | | | | | | | | 3 | | | | | | 6 3.5 |
| Ulcer | 4 | 4 | | | | | | | | | | | | | | | | | 4 | | | | | | 4 3.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 2.5 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cranium, Osteopetrosis | | | | | | | | | | | | | | | | | | | 3 | | | | | | 1 3.0 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | + | + | | | | | 5 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 |
| FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 11 2.5 |
| Neuron, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | 16 1.9 |
| Arteriole, Necrosis, Fibrinoid | 1 | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | 12 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 12 1.8 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.5 |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | | | | | | | | | | | | | | | 12 1.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 17 2.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Nose | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 9 1.3 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 11 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Respiratory Epithelium, Metaplasia,
Squamous

1 1.0

Trachea

+ 50

SPECIAL SENSES SYSTEM

Ear

+ 1

Eye

| | |
|--|--------|
| + 50 | |
| 4 1 1 2 1 2 2 1 2 2 2 2 2 2 2 2 | 23 1.7 |
| 3 2 2 | 5 2.4 |
| 3 2 2 | 3 2.0 |
| 3 2 | 1 3.0 |
| 2 | 1 2.0 |

Harderian Gland
Hyperplasia, Focal

+ 50 1 2.0

Lacrimal Gland

+ 1

Zymbal's Gland

1

URINARY SYSTEM

| | | |
|---------------------------------------|--|--------|
| Kidney
Nephropathy | + 50 | 30 1.4 |
| 1 2 1 1 1 1 1 1 3 1 1 1 1 1 1 2 1 4 1 | 2 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 2 | 6 | 5 | 2 | 2 | 6 | 2 | 7 | 2 | 6 | 6 | 2 | 7 | 7 | 2 | 2 | 2 |
| | 9 | 7 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 1 | 7 | 7 | 8 | 9 | 2 | 9 | 1 | 3 | 9 | 2 | 3 | 7 | 7 | 7 |
| | 1 | 6 | 0 | 4 | 7 | 1 | 1 | 0 | 4 | 3 | 8 | 8 | 3 | 8 | 9 | 0 | 7 | 0 | 8 | 9 | 0 | 3 | 7 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 |
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| <hr/> | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE
ANIMAL ID
0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ 2

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ +

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ M

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

+ + + + + + + A + + + + + + + + + + + + + + + + + + A +

Liver

+ +

Basophilic Focus

X X

Infiltration Cellular, Mixed Cell

1 1 2 1

Mixed Cell Focus

X

Hematopoietic Cell Proliferation

1

Necrosis, Focal

2

Eosinophilic Focus

X

Clear Cell Focus

X

Hepatodiaphragmatic Nodule

X

Bile Duct, Hyperplasia

1 1 X

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 1 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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| DAY ON TEST | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | M | + | + | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Corpus Luteum, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 | | |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | |
| females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | |
| Lymph Node | + | + | | | | | | | | | | | | | | | | | | + | + | | | | | |
| Medastinal, Hemorrhage | 2 | 1 | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Medastinal, Pigmentation | 2 | 3 | | | | | | | | | | | | | | | | | | 3 | 2 | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Medastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pigmentation | 2 | 2 | | | | | | | | | | | | | | | | | | 2 | 2 | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 1 | 4 | 2 | 1 | 2 | | |
| Hyperplasia, Lymphoid | | | 2 | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | 3 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pigmentation | 3 | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Hematopoietic Cell Proliferation | | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | 3 | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | 1 | | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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TDMS No. 93020 - 07

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Route: SKIN APPLICATION

Species/Strain: RATS/F 344

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|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| ANIMAL ID | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| 0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

INTEGUMENTARY SYSTEMMammary Gland
Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| 4 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 4 | 3 | 3 |

Skin

Epidermis, Skin, Site Of Application,
Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

1

Epidermis, Hyperplasia
Inflammation, Chronic4
4**MUSCULOSKELETAL SYSTEM**

Bone

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEMBrain
Compression
Hydrocephalus
Necrosis
Gliosis
Hemorrhage
Angiectasis

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| 4 | 2 | | | | 2 | 2 | | | | | | | | | | 2 | + | 2 | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

2

3

1

3

Peripheral Nerve

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 6 | 6 | 7 | 6 | 3 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 2 | 7 | 7 | 6 | 7 |
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

Spinal Cord

+ +

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | 1 | | | | | | | 2 | | | | | | | | | | | 1 | | 2 | | 3 | | |
| Infiltration Cellular, Histiocyte | | 1 | | | 1 | 1 | | | | 1 | 2 | | | | 1 | | 1 | 1 | | 2 | | 1 | 3 | | |
| Hemorrhage | | | | | | | 2 | | | 2 | 2 | | | | 1 | | 1 | 1 | | 2 | | 2 | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | 2 | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | X | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | 1 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | 3 | 3 | | | | | | |
| Retina, Degeneration | | | | | | | | | | | | | | | | | 4 | 4 | | | | | | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | 6 | 3 | 2 | 9 | 3 | 3 | 7 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 0 | 3 | 3 | 4 | 3 | 0 | 3 | 3 |
| | 2 | 7 | 3 | 1 | 4 | 2 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 1 | 2 | 5 | 6 | 6 | 3 | 3 | 1 | 3 | 3 | 2 |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | |
| females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

Hyperplasia, Focal

1

Lacrimal Gland

+

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
0 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema

+ 50 1 2.0

Intestine Large, Colon

+ 50

Intestine Large, Rectum

+ 50

Intestine Small, Duodenum
Epithelium, Hyperplasia

+ 49 1 1.0

1

Intestine Small, Ileum

+ + + + + + A + + + + + + + + + + + + + + + M + 48

Intestine Small, Jejunum

+ + + + + + A + + + + + + + + + + + + + + + + + 47

Liver

+ 50

Basophilic Focus

X 42

Infiltration Cellular, Mixed Cell

2 3 2 2

Mixed Cell Focus

X 3 3

Hematopoietic Cell Proliferation

1 1.0

Necrosis, Focal

5 1.4

Eosinophilic Focus

4

Clear Cell Focus

10

Hepatodiaphragmatic Nodule

11

Bile Duct, Hyperplasia

5 1.6

3 X 3

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l .. Insufficient tissue

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 9 | 3 | 1 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | 11 |
| Fat, Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | 11 2.9 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 1 | | | | | | | | | | | | | | | | | | | | | | | 15 1.5 |
| Cyst | | 3 | | 1 | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 3 3.7 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 30 | 1.5 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Degeneration, Fatty | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 20 | 2.1 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 3 1.7 | |
| Hypertrophy, Focal | | | | | | | | | | | | | | | | | | | | | | | | 10 2.3 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | | | | | | | 9 3.0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 5 1.2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 2.0 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 16 3.0 |
| Pars Distalis, Cyst | 3 | | 3 | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 7 2.3 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 17 1.6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic | 1 | | | | | 2 | | 3 | | 2 | 2 | | 2 | 2 | | 2 | 2 | | 2 | | 3 | | 3 | 13 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Corpus Luteum, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | 11 3.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 4 2.8 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------|
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| ..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 6 3.2 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 6 2.7 |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.20 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 3 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 25 2.1 |
| Hemorrhage | 2 | 3 | | | | | 2 | 2 | 2 | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 11 1.5 |
| Hyperplasia, Lymphoid | 2 | 2 | | | | | 2 | 3 | | | | | | | | | | | | | | | | | 16 2.3 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | | 10 3.0 |
| Hematopoietic Cell Proliferation | 2 | 1 | 2 | | 2 | 1 | | 3 | 2 | 1 | | | | | | | | | | | | | | | 21 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 1 3.0 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| ..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 3 | 3 | 3 | 4 | 4 | 1 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 3 | 45 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Skin, Site Of Application, | 1 | 1.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |
| Inflammation, Chronic | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.5 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Compression | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 14 2.9 |
| Hydrocephalus | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

Spinal Cord

2

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | 2 | | | 3 | | 2 | 1 | | 2 | | | | | | | | | 10 1.9 |
| Infiltration Cellular, Histiocyte | | | | | | | | | 1 | | | 1 | | 2 | | | 1 | | | | | | | | | 22 1.2 |
| Hemorrhage | | | | | | | | | 1 | | | 1 | | 2 | | | 1 | | | | | | | | | 8 1.6 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | 1 | | | 1 | | 1 | | | 1 | | | | | | | | | 3 1.3 |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Edema | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 4 2.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | X | X | | | | | | | | | | | | | | | | | | | | | | 5 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 4 1.8 |
| Inflammation, Chronic | | | 1 | 1 | | | | | | | | | | | | | 2 | | | | | | | | | 6 1.7 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | 2 | | | | | | | | 4 3.0 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | 1 | | | | | | | | 1 1.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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Date Report Reqstd: 08/08/2005

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 4 | |
| | 3 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 5 | 3 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 |
| | 3 | 3 | 2 | 0 | 2 | 1 | 6 | 2 | 0 | 3 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 9 | 3 | 1 | 6 | 7 |
| ..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0 MG/KG | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |

Hyperplasia, Focal

1 1.0

Lacrimal Gland

1

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 1 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 32 2.1 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| ..... | 3 | | | | | | | | | | | | | | | | 2 | | | 2 | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

**females
(cont...)**

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum

+ +

Edema

2

Inflammation, Chronic

3

Intestine Large, Colon

+ +

Intestine Large, Rectum

+ | +

Intestine Small, Duodenum

+ +

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

+ +

Liver

+ +

Basophilic Focus

X X

Clear Cell Focus

X X

Eosinophilic Focus

X

Hepatodiaphragmatic Nodule

X

Infiltration Cellular, Mixed Cell

1

1

3

Bile Duct, Hyperplasia

1

Kupffer Cell, Pigmentation

2

Hepatocyte, Vacuolization Cytoplasmic

4

Mixed Cell Focus

X

2

1

X X

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

Inflammation, Chronic

3

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Fatty | 4 | | 3 | 2 | | 3 | 3 | 3 | | | | | 2 | 2 | | | | 2 | 2 | 2 | 3 | | 1 | | | |
| Hypertrophy, Focal | 3 | | | | | 4 | | | 1 | | | | 2 | | | | | | | | | 3 | | | 3 | |
| Accessory Adrenal Cortical Nodule | | 3 | | 3 | | | | | 3 | | | | 3 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Cyst | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | 2 | 2 | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
10 MG/KG | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland

+ + + + + + + | +

Cyst

3

Inflammation, Chronic

2

Hyperplasia

2

Ovary

+ +

Cyst

3

3 3

Uterus

+ +

Endometrium, Hyperplasia, Cystic

2

2

2 2

Vagina

+ +

Cyst

3

3 3

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Hyperplasia

3

Myelofibrosis

2

2

4 2

Lymph Node

+ +

Medastinal, Hemorrhage

4

+

2

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

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|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 | 3 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pigmentation | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | 3 | | 2 | 3 | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 2 | 1 | | 2 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 1 | 2 | | | | |
| Pigmentation | | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | M | + | + | + | + | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 3 | 3 | 4 | 2 | 2 | 4 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epidermis, Skin, Site Of Application, | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peripheral Nerve | + | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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TDMS No. 93020 - 07

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Species/Strain: RATS/F 344

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DIISOPROPYLCARBODIIMIDE

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Date Report Reqsted: 08/08/2005

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)

Spinal Cord

+

+

+

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hemorrhage | 2 | | | | | | | | | | | | | | | | | | | | 2 | 2 | 1 | | | |
| Inflammation, Chronic | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | 3 | | | 1 | 2 | |
| Infiltration Cellular, Histiocyte | | | | 1 | | | | | | | | | | | | | | | | | 2 | 1 | | 1 | 1 | |
| Edema | | | | | | | | | | | | | | | | | | | | 3 | | | | | 2 | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | 2 | | | | | | | | | | | | | | | | | | | | 3 | 3 | | | |
| Retina, Degeneration | 3 | | 2 | | | | | | | | | | | | | | | | | | 3 | | | 4 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 4 | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | 4 | | | | |

Zymbal's Gland

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 3 | 7 | 5 | 3 | 7 | 7 | 7 | 7 |
| DAY ON TEST | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 7 | 3 | 3 | 3 | 6 | 3 | 5 | 3 | 2 | 3 | 1 | 4 | 3 | 3 | 3 | 3 |
| | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 9 | 3 | 2 | 1 | 7 | 1 | 3 | 7 | 3 | 1 | 3 | 2 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

females
(cont...)

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy | 1 | 3 | 1 | 1 | 3 | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 2 | | 1 |
| Inflammation, Chronic | | 2 | | | | | | | | | | | | | | | | | | | 2 | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Page 93

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema
Inflammation, Chronic+ 50
2 23 2.0
1 3.0

Intestine Large, Colon

+ 50

Intestine Large, Rectum

+ + + + + + + + + + + + | + + + + + + + + + + + + 48

Intestine Small, Duodenum

+ 50

Intestine Small, Ileum

+ 49

Intestine Small, Jejunum

+ 50

Liver

+ 50

| | | |
|---------------------------------------|---|--------|
| Basophilic Focus | X | 43 |
| Clear Cell Focus | X | 6 |
| Eosinophilic Focus | X | 3 |
| Hepatodiaphragmatic Nodule | X | 6 |
| Infiltration Cellular, Mixed Cell | 1 | 2 |
| Bile Duct, Hyperplasia | 1 | 1 |
| Kupffer Cell, Pigmentation | | |
| Hepatocyte, Vacuolization Cytoplasmic | | 3 |
| Mixed Cell Focus | | 2 |
| | | 3 |
| | X | X X |
| | | 1 |
| | | 11 1.5 |
| | | 3 1.3 |
| | | 1 2.0 |
| | | 5 2.8 |
| | X | 5 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis, Focal
Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Fat, Necrosis | + | | + | + | + | | + | | | + | | + | + | | | | | | | + | | | 12 | |
| | 3 | | 1 | 3 | 4 | | 2 | | | 2 | | 3 | 4 | | | | | | | 2 | | | 11 | 2.7 |
| Pancreas
Atrophy
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | | 2 | | 1 | 1 | | 2 | | 3 | 2 | | 1 | 3 | | | | | | | | | | 16 2.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal
Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Erosion
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Heart
Cardiomyopathy
Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 3 | 1 | 3 | 2 | + | 39 1.8 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| FISCHER 344 RATS FEMALE
ANIMAL ID
10 MG/KG | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Inflammation, Chronic

1 3.0

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Degeneration, Fatty | | | | | | | | | | | | | | | | | | | | | | | | 15 2.5 |
| Hypertrophy, Focal | 2 | | | | | | | | | | | | | | | | | | | | | | | 10 2.2 |
| Accessory Adrenal Cortical Nodule | | 1 | 3 | | | | | | | | | | | | | | | | | | | | | 6 3.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Metaplasia, Hepatocyte | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Parathyroid Gland | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Cyst | 3 | | 3 | | | | | | | | | | | | | | | | | | | | | 6 3.0 |
| Pars Distalis, Hyperplasia, Focal | 3 | | | | | | | | | | | | | | | | | | | | | | | 7 2.0 |
| Pars Distalis, Angiectasis | 3 | | | | | | | | | | | | | | | | | | | | | | | 6 2.5 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Hyperplasia | 1 | | 1 | 1 | | | | | | | | | | | | | | | | | | | | 14 1.5 |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 |
| DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 3 | 3.0 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | 3 | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | 8 | 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Endometrium, Hyperplasia, Cystic | 2 | | 2 | | | | | | | | | | | | | | | | | | | | 10 | 2.2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | 6 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | 1 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | 8 | 2.6 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | 10 | |
| Medastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | 4 | 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 | |
| | 3 | 8 | 1 | 3 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 3 6.27 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Mediastinal, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 3 5.30 | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Deep Cervical, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | + | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | 7 | |
| Ectasia | | | | | | | | 2 | | | | | | | | | | | | | | | | 2 4.25 | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pigmentation | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 24 2.1 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 11 1.1 | |
| Hyperplasia, Lymphoid | 2 | | 2 | 2 | 2 | 3 | | | 2 | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 20 2.3 | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | 2 | | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 29 1.7 |
| Pigmentation | 3 | 3 | | | | | 3 | | | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 16 3.1 |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 10 MG/KG | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 4 | 3 | 3 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 4 | 2 | 3 | 4 | 3 | 4 | 3 | 2 | 3 | 46 2.9 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Epidermis, Skin, Site Of Application, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 5 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | 1 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | 13 3.7 |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 8 2.3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 8 1.4 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | 5 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 2 | 1 |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 MG/KG | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*** TOTALS**

Spinal Cord

+

+

5

RESPIRATORY SYSTEM

Lung

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 3 | | | | | | | | 2 | 3 | 3 | 1 | | | | | | 1 | | 1 | 2 | | | 14 1.9 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | 2 | 1 | 1 | | | 2 | 1 | 1 | 2 | | | | 1 | | 2 | 1 | 3 | | | | | | | 22 1.5 |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 2 | 1 | 2 | | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 26 1.2 |
| Edema | | | | | | | | | | | | | | | | | | | 3 | | | | | 4 2.8 |
| Alveolar Epithelium, Hyperplasia | | | | | | 3 | 2 | | | | | | | | | | | | | | | | | 4 2.3 |

Nose

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |

Trachea

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

SPECIAL SENSES SYSTEM

Eye

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | 3 | | | | | | | | | 2 | | | | | 5 2.6 | |
| Retina, Degeneration | | | | | 2 | | | | 4 | | | | | | | | | 3 | | | | | 7 3.0 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

Harderian Gland

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |

Zymbal's Gland

+ 1

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 5 | 7 | 6 | 7 | 5 | 7 | 2 | 7 | 7 | 7 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 9 | 3 | 5 | 3 | 0 | 9 | 3 | 7 | 2 | 2 | 1 | 4 | 3 | 3 | 3 |
| | 3 | 8 | 1 | 3 | 2 | 2 | 2 | 1 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 5 | 3 | 7 | 3 | 2 | 2 | 8 | 2 | 2 | 1 |
| ..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 10 MG/KG | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Nephropathy | 2 | 1 | | 3 | 1 | 2 | | 2 | 3 | 2 | | 1 | 2 | 1 | | 2 | 3 | | 1 | 2 | | 1 | | 32 1.6 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Page 101

1-4 .. Lesion qualified as:

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Lab: SRI

ALIMENTARY SYSTEM

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 |
|----------------------------------|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 |
| ANIMAL ID | 3 | 2 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| 20 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| | females
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | 3 | 2 | | | | | | | | | 1 | 1 | | | | | | | | 1 | | | | | |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glands, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | |

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Tongue

+

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | 2 | 3 | 3 | | 1 | | 1 | | 2 | | 2 | | 2 | | 3 | | 1 | | 3 | | 1 | | 1 | | 3 | 2 | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Degeneration, Fatty | | | | | | | 2 | | | | 3 | | | 3 | 2 | | 3 | 2 | | | | | | | 3 | 2 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | 3 | | | 3 | | | | | | | | | | | | | |
| Hypertrophy, Focal | | | | | | | | | | | 1 | | | 2 | | | 1 | | | | | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | 3 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Cyst | | | | | | | | | | | 3 | 3 | 3 | | | 3 | | 3 | | | | | | | 3 | 3 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Pars Distalis, Angiectasis 3
 Pars Distalis, Hyperplasia, Focal 2 3 2 2
 Pars Intermedia, Cyst 3
 Pars Intermedia, Angiectasis 3

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Follicle, Cyst | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Hyperplasia | | 1 | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic | | | | | 2 | | 2 | | | | | | | | | | | | | 3 | | 2 | | | 2 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cyst | | | | | | 3 | | | | 3 | | | | | | | | | | | | | 3 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Hyperplasia, Cystic | | | | | | | 2 | | | | | | | | | | | | | | | | | | 3 |
| Vagina | | | | | | | | + | + | | | | | | | | | | | + | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)

Hemorrhage

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 3 | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 2 | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Skin, Site Of Application, | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Compression | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 20 MG/KG | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

females
(cont...)Hydrocephalus
Angiectasis

2

Peripheral Nerve

+ +

Spinal Cord

+ +

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Alveolar Epithelium, Hyperplasia | 1 | | | | | 3 | | | | | 3 | | | | 3 | 2 | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | 2 | 1 | | 1 | | 1 | 2 | | | | 3 | 1 | | | | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Inflammation, Chronic | | | 1 | | | 2 | 3 | 2 | | | | | | | | | | 1 | 1 | 1 | | | | | | | |
| Edema | | | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 | |
| Hemorrhage | | | | | | | | | | | | | | | 4 | 1 | | | 1 | | | | | | | 1 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Emphysema | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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CAS Number: 693-13-0

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Date Report Reqsted: 08/08/2005

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First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 3 | 7 | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 8 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 |
| | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 0 | 2 | 1 | 2 | 3 | 1 | 1 | 5 | 3 | 2 | 1 | 3 | 2 | 5 | 2 | 3 | 2 | 4 | 3 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 2 | 3 | 3 | 3 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Page 109

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 | 3 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

*** TOTALS**

ALIMENTARY SYSTEM

Esophagus

+ 50

Intestine Large, Cecum
Edema

+ 50 1 3.0

Intestine Large, Colon

+ M + 49

Intestine Large, Rectum

| + | + + | + + + | + + + + + + + + + + + + + + + + + + 43

Intestine Small, Duodenum

+ 50

Intestine Small, Ileum

+ 50

Intestine Small, Jejunum
Epithelium, Hyperplasia

+ 50 1 1.0

Liver

+ 50

Basophilic Focus

X 45

Hepatodiaphragmatic Nodule

X 12

Infiltration Cellular, Mixed Cell

2 2 1 2 1 3.1.6

Necrosis, Focal

3 1.7

Hepatocyte, Vacuolization Cytoplasmic

3 3.0

Clear Cell Focus

4 4

Hemorrhage

2 2.0

Mixed Cell Focus

7 7

Eosinophilic Focus

8 8

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Mesentery | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 8 3.0 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Pancreas | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 18 1.8 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 5 3.0 |
| Acinus, Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Acinus, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Salivary Glands | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Stomach, Forestomach | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Stomach, Glandular | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Glands, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Tongue

1

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 3 | 2 | 1 | 1 | 1 | 3 | 2 | | 1 | 1 | 3 | 1 | 2 | 2 | | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 1 | 35 1.9 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|--------------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Degeneration, Fatty | 3 | | | | | | | | | | 3 | 3 | 2 | 1 | 4 | 3 | | | | | | | | 16 2.5 | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | 3 | 3 | 3 | 3 | 3 | | | | | | | | | | 9 3.0 | |
| Hypertrophy, Focal | 3 | | | | | | | | 2 | | 2 | | | | | | | | | | | | | | 9 1.8 |
| Hyperplasia, Focal | | | | | | | | | 2 | | | | | | | | | | | | | | | | 4 2.3 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------------|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Parathyroid Gland | + | + | + | \| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------------|
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Pars Distalis, Cyst | | | | | | | | | | 3 | 3 | 3 | | | | 3 | 3 | | | | | | | 15 3.0 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*** TOTALS**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|--------|
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 4 2.8 |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 10 2.4 |
| Pars Intermedia, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 3.0 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 3.0 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Follicle, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 1.0 |
| C-cell, Hyperplasia | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 10 1.8 | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | 3 | 10 2.3 |
| Hyperplasia | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 1.0 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 9 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 5 2.2 |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 5 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 5 | 7 |
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEMBone Marrow
Myelofibrosis
Hyperplasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 2.7 |

Lymph Node
Mediastinal, Hemorrhage
Mediastinal, Pigmentation
Mediastinal, Hyperplasia, Lymphoid
Pancreatic, Hemorrhage
Pancreatic, Pigmentation
Mediastinal, Ectasia

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 14 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 9 2.8 |
| | | | | | | | | | | | | | | | | | | | | | | | | 7 2.4 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

Lymph Node, Mandibular

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Lymph Node, Mesenteric
Pigmentation
Hemorrhage
Hyperplasia, Lymphoid

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 27 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 6 1.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 12 2.1 |

Spleen
Hematopoietic Cell Proliferation
Pigmentation
Lymphoid Follicle, Hyperplasia
Necrosis

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 29 1.7 |
| | | | | | | | | | | | | | | | | | | | | | | | | 13 3.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 3.3 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 4.0 |

Thymus
Hyperplasia, Lymphoid

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|-------|
| | 7 | 7 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 5 | 7 | |
| DAY ON TEST | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 | |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 20 MG/KG | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 2 | 4 | 4 | 3 | 3 | 4 | 2 | 3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Epidermis, Hyperplasia | 4 | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Epidermis, Skin, Site Of Application, | 1 | | | | | | | | | | | | | | | | | | | | | | | 16 1.0 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Inflammation, | | | | | | | | | | | | | | | | | | | | | | | | 3 1.0 | |
| Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ulcer | 4 | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | + 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Gliosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Compression | 4 | 2 | 4 | 3 | 3 | 4 | 3 | | | | | | | | | | | | | | | | | 14 3.3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Peripheral Nerve | + | | | | | | | | | | | | | | | | | | | | | | | + 7 |
| Spinal Cord | | + | | | | | | | | | | | | | | | | | | | | | | + 7 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Alveolar Epithelium, Hyperplasia | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | 10 1.9 |
| Infiltration Cellular, Histiocyte | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | 30 1.5 |
| Inflammation, Chronic | 2 | | 1 | 3 | 1 | | | | 1 | 1 | | | | | | | | | | | | | | 19 1.5 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 9 1.8 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Emphysema | | | | | | | | | | | | | | | | | | | | | | | | 4 1 4.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

SPECIAL SENSES SYSTEM

| | | |
|--|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | M .. Missing tissue | 1-4 .. Lesion qualified as: |
| + .. Tissue examined microscopically | A .. Autolysis precludes evaluation | 1) Minimal 3) Moderate |
| x .. Lesion present | BLANK .. Not examined microscopically | 2) Mild 4) Marked |
| I .. Insufficient tissue | Page 116 | |

TDMS No. 93020 - 07

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|--------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| | 2 | 0 | 3 | 4 | 0 | 3 | 8 | 3 | 8 | 3 | 3 | 3 | 9 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 0 | 3 | 3 | 3 | |
| | 3 | 3 | 1 | 6 | 6 | 2 | 6 | 3 | 4 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 5 | 3 | 3 | 2 | 9 | 1 | 2 | 6 | 3 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 5 2.8 |
| Retina, Dysplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Nephropathy | 3 | 2 | 1 | 1 | 4 | | | | | | | | | | | | | | | | | | | | | 28 2.0 |
| Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | |

females
(cont...)

ALIMENTARY SYSTEM

Esophagus

+ +

Intestine Large, Cecum
Edema

+ 3

Intestine Large, Colon

+ +

Intestine Large, Rectum
Hemorrhage

+ | + + + + + | | + + + | + + + + + + + + + + + + + 2

Intestine Small, Duodenum

+ +

Intestine Small, Ileum

+ +

Intestine Small, Jejunum

+ + + + + + + + A + + + + + + + + + + + + + + + + + +

Liver

+ +

Basophilic Focus

X X

Bile Duct, Hyperplasia

2 2 1 1 2 1 3 X

Infiltration Cellular, Mixed Cell

1 1 2 1 3 X

Hepatodiaphragmatic Nodule

X X

Eosinophilic Focus

X X

Necrosis, Focal

1 1 X

Mixed Cell Focus

X X

Angiectasis

2 2 X

Kupffer Cell, Pigmentation

2 2 X

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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Species/Strain: RATS/F 344

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | |
| DAY ON TEST | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females
(cont...)Cardiomyopathy
Inflammation, Chronic
Thrombosis

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Degeneration, Fatty | 4 | 2 | 4 | | | | 3 | | 1 | 1 | 2 | | | | | | | 2 | | 1 | 1 | | | | |
| Hypertrophy, Focal | 2 | 2 | 3 | | | | | | | | | | | | | | | 2 | | | | | | | |
| Accessory Adrenal Cortical Nodule | | | | | | | | | | | | | | | | | | 3 | 3 | | | | | | |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Cyst | 3 | 3 | | | | | | 3 | 3 | | | 3 | | | | 3 | 3 | 3 | 3 | 3 | 3 | | | 3 | |
| Pars Distalis, Hyperplasia, Focal | | | | | | | | | | | 2 | | | | 2 | | 3 | 2 | | | 2 | | | | |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | | | | | | | | | | | | | | 2 | | 2 | | 3 | | | | 2 | |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | 3 | | | | 3 | | | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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l .. Insufficient tissue

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

Follicle, Cyst

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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Lab: SRI

| DAY ON TEST | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hematopoietic Cell Proliferation | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thymus | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | + | + | + | + | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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M .. Missing tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | |
| Hyperplasia | 4 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 4 | 2 | 1 | 3 | 2 | 4 | 4 | 4 | 4 | 4 | 3 | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Epidermis, Skin, Site Of Application, | 1 | | 1 | 1 | | | | | | 1 | 1 | 1 | | | | 1 | 1 | | | | 1 | | | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin, Site Of Application, Inflammation, | 1 | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Chronic | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Compression | 4 | 3 | | | | 3 | | | | 2 | | | | | | 3 | | | | 4 | 2 | 4 | | | |
| Hydrocephalus | | | | | | | | | | | | | | | | | | | 2 | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|---|--|
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | + | | | + | + | |
|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|---|--|

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|---|--|
| Spinal Cord | | | | | | | | | | | | | | | | | | | + | | | + | + | |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|---|---|--|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqsted: 08/08/2005

Time Report Reqsted: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | |
|--|-------------|---|
| FISCHER 344 RATS FEMALE
ANIMAL ID
40 MG/KG | DAY ON TEST | 7 7 7 7 6 7 6 7 6 6 7 7 6 7 4 5 6 7 7 7 7 4 7 6 6 5 |
| | | 2 3 2 3 6 3 9 3 6 1 3 0 7 3 6 9 6 3 0 2 5 3 4 1 5 |
| | | 9 2 9 1 2 3 7 1 3 7 3 3 3 3 9 3 7 3 3 5 6 3 6 7 9 |

| | | |
|--|--|---|
| | | 0 |
| | | 0 |
| | | 3 |
| | | 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 |
| | | 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 |

females
(cont...)

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infiltration Cellular, Histiocyte | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Hemorrhage | 3 | 2 | | | | | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| Pigmentation | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | X |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cornea, Inflammation, Chronic | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Cornea, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Date Report Reqsted: 08/08/2005

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 6 | 5 | | |
| | 2 | 3 | 2 | 3 | 6 | 3 | 9 | 3 | 6 | 1 | 3 | 0 | 7 | 3 | 6 | 9 | 6 | 3 | 0 | 2 | 5 | 3 | 4 | 1 | 5 |
| | 9 | 2 | 9 | 1 | 2 | 3 | 7 | 1 | 3 | 7 | 3 | 3 | 3 | 9 | 3 | 7 | 3 | 3 | 5 | 6 | 3 | 6 | 7 | 9 | |
| FISCHER 344 RATS FEMALE | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 40 MG/KG | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females
(cont...)**URINARY SYSTEM**

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Nephropathy | 3 | | | | 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | 2 | | | | | | | | | 3 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| 40 MG/KG | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 40 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 |
| Infiltration Cellular, Mixed Cell | | | | | | | | | | | | | | | | | | | | | | | | 8 1.4 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| Eosinophilic Focus | X | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Necrosis, Focal | | | | | | | | | | | | | | | | | | | | | | | | 4 1.5 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Kupffer Cell, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

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l .. Insufficient tissue

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TDMS No. 93020 - 07

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Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
| Hepatocyte, Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | | 4 3.0 |
| Hemorrhage | 3 | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Centrilobular, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Clear Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Regeneration | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery | + | | | | | | | | | | | | | | | | | | | | | | | 9 |
| Fat, Necrosis | 4 | | | | | | | | | | | | | | | | | | | | | | | 3 2 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Atrophy | 2 | 2 | 2 | 3 | 2 | 2 | 4 | 1 | 2 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 19 2.1 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Erosion | | | | | | | | | | | | | | | | | | | | | | | | 4 2.3 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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TDMS No. 93020 - 07

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Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 | |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | |
| Cardiomyopathy | 2 | 2 | 3 | 2 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 31 1.5 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Degeneration, Fatty | 3 | | | | | | | | | | | | | | | | | | | | | | | | 17 2.1 |
| Hypertrophy, Focal | 3 | | | | | | | | | | | | | | | | | | | | | | | | 8 2.4 |
| Accessory Adrenal Cortical Nodule | | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | 8 3.0 |
| Hyperplasia, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 5 1.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pars Distalis, Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 14 3.0 |
| Pars Distalis, Hyperplasia, Focal | | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | 11 2.2 |
| Pars Intermedia, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 4 3.5 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| C-cell, Hyperplasia | 1 | 1 | | 2 | 2 | | | | | | | | | | | | | | | | | | | | 12 1.6 |
| Ultimobranchial Cyst | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 93020 - 07

Test Type: CHRONIC

Route: SKIN APPLICATION

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

Follicle, Cyst

3

1 3.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 3 3.0 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | 6 3.0 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | 9 2.4 |
| Vagina | | | | | | | | + | | | | | | | | | | | | | | | | 11 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 6 2.7 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 |
| Myelofibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 2.0 |
| Lymph Node | | | | | | | | + | | | | | | | | | | | | | | | | 8 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

Test Type: CHRONIC

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DIISOPROPYLCARBODIIMIDE

CAS Number: 693-13-0

Pathologist: HEATH, J. - DURBIN, L. - ALLISON, M.

Date Report Reqstd: 08/08/2005

Time Report Reqstd: 08:54:04

First Dose M/F: 04/24/00 / 04/24/00

Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--------|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
| Mediastinal, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 3 2.0 | |
| Mediastinal, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| Pancreatic, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Pancreatic, Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Lymph Node, Mandibular Ectasia | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Pigmentation | | 2 | 2 | 2 | | 2 | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 17 2.0 |
| Hemorrhage | 1 | | | | | | | | | | | | | | | | | | | | | | | 5 1.8 | |
| Hyperplasia, Lymphoid | 2 | 2 | 3 | 2 | | 2 | 3 | | | | | | | | | | | | | | | | | | 11 2.3 |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Hematopoietic Cell Proliferation | | 4 | 1 | 2 | | 2 | | 1 | | 2 | | 2 | | 2 | 1 | | 1 | | 1 | | 1 | | | | 20 1.8 |
| Pigmentation | 3 | 3 | | | | 3 | | | | | | | | | | | | | | | | | | | 16 3.0 |
| Lymphoid Follicle, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | |
| Lymphoid Follicle, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hyperplasia, Reticulum Cell | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 46 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |

INTEGUMENTARY SYSTEM

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 93020 - 07

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Lab: SRI

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|---------------|
| Mammary Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 41 2.7 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Epidermis, Skin, Site Of Application, Hyperplasia | 1 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 21 1.0 | |
| Skin, Site Of Application, Inflammation, Chronic | 1 | | | | | | | | | | | 1 | 1 | | | 1 | | | | | | | | 10 1.0 |
| Epidermis, Hyperplasia | | | | | | | | | | | | | | | 2 | | | | | | | | | 1 2.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Compression | | | | | | | | | | | | | | | | | | | | | | | |
| Hydrocephalus | 3 | | | | | | | | | | | | | | | 2 | 3 | 4 | 3 | | | | 13 3.1 |
| | | | | | | | | | | | | | | | | 2 | | | | | | | 2 2.0 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | 5 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | 5 |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 93020 - 07

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Lab: SRI

| DAY ON TEST | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 MG/KG | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Infiltration Cellular, Histiocyte | 1 | 2 | | 2 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | | | | | | | 27 |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 1.2 |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 10 |
| Pigmentation | | | | | | | | | | | | | | | | | | | | | | | | | 1.1 |
| Edema | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 1.8 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Foreign Body | X | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | | 3 | | | | | | | | | | | | | | | | | | | | | | | 2.3 |
| Respiratory Epithelium, Hyperplasia | | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cornea, Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Retina, Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | 1.3 |
| Cornea, Hyperplasia | | 3 | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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l .. Insufficient tissue

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| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 1 |
| | 9 | 2 | 3 | 1 | 2 | 2 | 3 | 4 | 7 | 3 | 3 | 3 | 0 | 3 | 9 | 2 | 0 | 8 | 3 | 3 | 3 | 3 | 3 | 4 |
| | 3 | 9 | 2 | 3 | 9 | 7 | 1 | 6 | 0 | 2 | 2 | 2 | 5 | 3 | 1 | 9 | 1 | 7 | 2 | 2 | 3 | 3 | 3 | 1 |
| ..... | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 40 MG/KG | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Nephropathy | | 3 | | | | 3 | 3 | 1 | | | | | | | | | | | | | | | | | 21 1.7 |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Renal Tubule, Accumulation, Hyaline | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 |
| Droplet | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 |
| Renal Tubule, Dilatation | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked